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COPY OF PAPER
ORIGINALLY FILED

Atty Dkt No. 5100-0705
Client No. 0019-US

COMBINED DECLARATION AND POWER OF ATTORNEY
FOR UTILITY PATENT APPLICATION

AS A BELOW-NAMED INVENTOR, I HEREBY DECLARE THAT:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: METHODS AND COMPOSITIONS FOR POLYNUCLEOTIDE ANALYSIS USING GENERIC MOLECULAR BEACONS the specification of which

 is attached hereto

X was filed on August 31, 2001

and assigned Serial No. 09/945,379.

I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS, AS AMENDED BY ANY AMENDMENT REFERRED TO ABOVE.

I acknowledge and understand that I am an individual who has a duty to disclose information which is material to the patentability of the claims of this application in accordance with Title 37, Code of Federal Regulations, §§ 1.56(a) and (b) which state:

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98.

However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated

through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office,

or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

I do not know and do not believe this invention was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to said application. This invention was not in public use or on sale in the United States of America more than one year prior to this application. This invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on any application filed by me or my legal representatives or assigns more than six months prior to this application.

I hereby claim priority benefits under Title 35, United States Code § 119(e)(1) of any United States provisional application(s) for patent as indicated below and have also identified below any application for patent on this invention having a filing date before that of the application for patent on which priority is claimed:

<u>Application No.</u>	<u>Date of Filing</u> <u>(day/month/year)</u>	<u>Priority</u> <u>Claimed</u>
60/230,186	1 September 2000	Yes <u>X</u> No <u> </u>

I hereby appoint the following attorneys and agents to prosecute that application and to transact all business in the Patent and Trademark Office connected therewith and to file, to prosecute and to transact all business in connection with all patent applications directed to the invention:

Kenneth Barvosky, Reg. No. 36,442
Roberta L. Robins, Reg. No. 33,208
Dahna S. Pasternak, Reg. No. 41,411
Gary R. Fabian, Ph.D., Reg. No. 33,875
Narinder S. Banait, Reg. No. 43,482

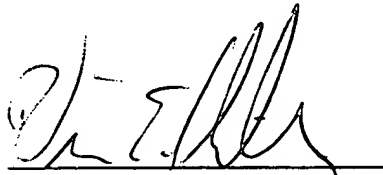
Address all correspondence to: Roberta L. Robins at

Customer No. 20855
ROBINS & PASTERNAK LLP
90 Middlefield Road, Suite 200
Menlo Park, CA 94025.

Address all telephone calls to: Roberta L. Robins at (650) 325-7812.

This appointment, including the right to delegate this appointment, shall also apply to the same extent to any proceedings established by the Patent Cooperation Treaty.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature: 
Full Name of Inventor: Vince PHILLIPS
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Date 11/12/01

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Date 11-201

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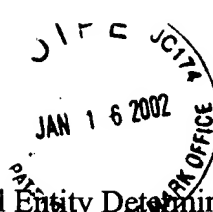
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Full Name of Inventor: Edith WONG

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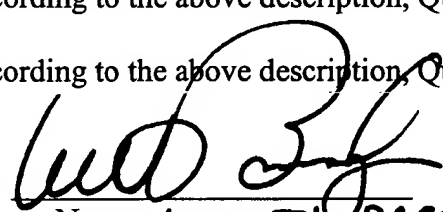
Small Entity Determination in the U.S. for the Case Entitled "METHODS AND COMPOSITIONS FOR POLYNUCLEOTIDE ANALYSIS USING GENERIC MOLECULAR BEACONS" (Serial No.09/945,379; Atty Dkt No. 5100-0705)

PLEASE READ AND MAKE THE APPROPRIATE SELECTION

Small entity according to U.S. Patent Office rules applies to patents owned by inventors, small business concerns with fewer than 500 employees, and non-profit organizations. If there is any assignment or license of rights, or obligation to assign or license rights to a large entity, i.e. a firm with more than 500 employees, then large entity applies.

X According to the above description, Quantum Dot Corporation is a small entity in the U.S.
____ According to the above description, Quantum Dot Corporation is a large entity in the U.S.

Signature:


Name: KENNETH BAROVSKY
Title: VICE PRESIDENT

Date: 19 Nov 01